



Australian Government

UEPMNT419 Perform civil drafting

Release: 2

UEPMNT419 Perform civil drafting

Modification History

Release 2. Minor release to update superseded pre-requisite units.

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to perform civil drafting and to use drawing equipment for the production of sectional, schematic and plan drawings.

Drafting is the creation of a technical drawing, schematic or plan of a mechanical device or structure for the purpose of determining how they have been created or works. Drafting can be completed by hand or with specially designed computer programs.

Competency in this unit requires the ability to prepare for drafting, perform civil drafting and complete work tasks. Individuals will, in general, work as a maintenance operative in a power generation facility.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Note: Workplace practice

The application of the skills and knowledge described in this unit of competency may require a licence or training permit to practice in the workplace, where work is carried out on gas and electrical installations. Additional and/or other conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

MEM09002 Interpret technical drawing

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for drafting

2 Perform drafting

3 Complete work

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Requirements including scope of work are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures

1.2 Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are reviewed in preparation for work

1.3 Relevant plans, drawings and manuals are selected and used, in accordance with workplace procedures

2.1 Civil structures and their assembly are drawn using sectional representations, in accordance with specification requirements

2.2 Civil structures are drawn to highlight critical features, in accordance workplace procedures and manufacturers' specifications

2.3 Progressive tolerance calculations are performed, in accordance with workplace procedures, to ensure functional operation of civil structures

2.4 Dimensions are selected to ensure fit of civil components, in accordance with specification requirements

2.5 Civil components are selected from manufacturers' catalogue, in accordance with workplace procedures, to meet specified functions

2.6 Pictorial drawings such as isometrics are produced, as requested, in accordance with workplace procedures and industry standards

3.1 Drawings are checked to ensure that civil structure assembly is possible, in accordance with specification requirements

3.2 Drawings are produced, registered and recorded, in

accordance with workplace documentation procedures

- 3.3** Relevant personnel are notified, and existing drawings and specification sheets are updated, as required

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPMNT419B Perform civil drafting.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPMNT419 Perform civil drafting

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work as per scheduled requirements
- implementing legislation, industry standards, codes of practice and regulations
- performing drafting of civil structures
- preparing for drafting
- using technical drawings, plans, manufacturers' specifications and manuals
- utilising drafting principles including using civil drawing symbols
- working with computer aided drawing systems and equipment

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- civil drawing symbols
- concepts and principles of drafting
- equipment for drawing and computer aided drawing systems
- legislation, industry standards, codes of practice and regulations
- technical drawings, plans, manufacturers' specifications and manuals
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:

- emergency procedures
- hazard identification
- risk control measures
- safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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